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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,999	12/14/2000	Robert D. Wachel	42390.P9125	1391

7590 01/12/2006

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EXAMINER

JAMAL, ALEXANDER

ART UNIT PAPER NUMBER

2643

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/737,999

Applicant(s)

WACHEL, ROBERT D.

Examiner

Alexander Jamal

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Communication

1. Examiner notes that arguments (11-21-2005) have been submitted.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-16** rejected under 35 U.S.C. 103(a) as being unpatentable over De Bruycker et al (6272219), and further in view of Alaimo et al. (6614811) and further in view of Williamson et al. (6477249).

As per **claim 1**, De Bruycker discloses a method of providing a dsl and POTS service (ABSTRACT) comprising the step of connecting a communications line (DSL+ADSL Line in Fig. 6) to a chassis. A chassis is inherent to the PairGain Line card 75 (Fig. 6), and the Pairgain RT circuitry 40 for the purpose of physically supporting the card. The method further comprises providing a DSL service onto the communication line (Fig. 6) and providing a POTS service onto the communication line (Fig. 6). De

Bruycker further discloses that each splitter (the one at the RT end and the one at the CO end) may be respectively integrated into the circuitry at the RT and CO sides (Col 4 lines 5-65). DeBruycker further discloses a splitter module 60 (Fig. 5) that separates and combines the DSL signals from the POTS signals. He also discloses that the splitter module may be implemented as a separate module (that inherently comprises a circuit board for the purpose of holding the circuit components) that may couple directly to the backplane (on the backside wire-wraps pins for example) (Col 4 lines 45-67). De Bruycker further discloses that the remote splitter may be a separate connector module (Col 4 lines 5-20). However, De Bruycker does not specify using a first circuit board in the chassis for implementing the DSL service, and a second circuit board in the chassis to implement the POTS service and that the separate splitter circuit board comprises passive components.

Alaimo teaches the use of a modular, multi-service telecommunications access device that utilizes separate peripheral cards (ABSTRACT, Figs. 2,3) that may be inserted into a chassis and connected via a backplane (Col 3 lines 45-62) (Col 4 lines 30-45). He teaches that there is a need for the access devices to be flexible to that individual businesses may configure and use the device for a number of applications (Col 1 lines 44-63). It would have been obvious to one of ordinary skill in the art at the time of this application to implement the POTS and DSL services disclosed by De Bruycker as circuit cards (ie. a first and second card) in a multiservice, configurable shelf like the one disclosed by Alaimo for the advantage of providing flexibility and expandability in adding or changing services to the subscribers.

Williamson discloses a communications signal splitter (using high-pass and low-pass filters) for use with ADSL and POTS traffic (ABSTRACT). He further teaches that the splitter is implemented with passive components and that passive components minimize power consumption are small and can be made cheaply (Col 3 lines 15-25). It would have been obvious to one of ordinary skill in the art at the time of this application to implement passive filters for the splitters for the purpose of minimizing power consumption and allow for small and cheap construction of the splitters.

As per **claim 6**, claim rejected for same reasons as claim 1 rejection.

As per **claim 14**, claim rejected for same reasons as claim 1 rejection.

Additionally, Alaimo discloses that the circuit boards used in the shelf may be hot-swappable (Col 2 line 22-30).

As per **claims 2-4**, claims rejected for same reasons as claim 14 rejection.

As per **claim 5**, De Bruycker discloses that the splitter comprises a low pass filter to filter out the first signals used to provide the DSL (ADSL in De Bruycker's disclosure) service and a high pass filter to filter out the second signals used to provide the POTS service (DSL in De Bruycker's disclosure) (Col 3 lines 33-67).

As per **claim 7**, De Bruycker discloses that the splitters may be mounted on the wire wrap pins of a backplane (Col 4 lines 45-67). This would make the backplane a midplane with the DSL and POTS (ADSL and DSL) boards plugged into the main side of

the midplane and the splitter (comprising the passive components) boards (transition boards) plugged into the second side of the midplane board.

As per **claim 8**, Alaimo discloses that the circuit boards used in the shelf may be hot-swappable (Col 2 line 22-30).

As per **claim 9**, A network data line (comprising DSL and ADSL signals) is attached to the splitter (transition) board as seen in De Bruycker Fig. 5.

As per **claim 10**, De Bruycker discloses that the splitter comprises a high pass filter to provide the DSL (ADSL in De Bruycker's disclosure) service and a low pass filter to provide the POTS (SLIC signals) service (DSL in De Bruycker's disclosure) (Col 3 lines 33-67).

As per **claim 11**, De Bruycker discloses that the splitter module (comprising high and low pass filters) may be implemented as a separate module (that inherently comprises a circuit board for the purpose of holding the circuit components) (Col 4 lines 37-67). Hence the splitter module would be a transition board.

As per **claim 12**, De Bruycker discloses that the splitters (transition boards) may be mounted on the wire wrap pins of a backplane (Col 4 lines 45-67). This would make the backplane a midplane with the DSL and POTS (ADSL and DSL) boards plugged into the main side of the midplane and the splitter boards (transition boards) plugged into the second side of the midplane board.

As per **claim 13**, Alaimo discloses that the circuit boards used in the shelf may be hot-swappable (Col 2 line 22-30).

As per **claims 15/16**, De Bruycker discloses that the splitters (transition boards) may be mounted on the wire wrap pins of a backplane (Col 4 lines 45-67). This would make the backplane a midplane with the DSL and POTS (ADSL and DSL) boards plugged into the main side of the midplane and the splitter boards (transition boards) plugged into the second side of the midplane board.

Response to Arguments

4. Applicant's arguments, filed 11-21-2005, with respect to claims 1-16, have been fully considered but they are not persuasive.

As per applicant's argument (remarks page 6) that the examiners final office action states that De Bruycker does not specify using circuit boards, examiner disagrees, and refers to the rejections of claims 1,6,14 above. Examiner stated that De Bruycker does not specify using a first circuit board in the chassis for implementing the DSL service, and a second circuit board in the chassis to implement the POTS service.

As per applicant's arguments (remarks page 6) that the De Bruycker and Alaimo do not disclose circuit boards, examiner disagrees. Examiner reads a circuit board as any device used to mount, support and connect the circuit components used for each 'peripheral card'.

As per applicant's arguments that Alaimo does not disclose a separate splitter module (remarks page 6), examiner notes that Debruycker discloses the separate splitter module (as per the claim 1 rejection above).

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As per applicant's argument (remarks page 8) that Williams does not disclose a splitter board with passive components, examiner refers applicant to the cited sections in the claim 1,6,14 rejections and further notes that those sections were cited in the previous final rejection. Williams is relied upon to teach the use of passive components for the splitter.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization where this application or proceeding is assigned are **571-273-8300** for regular communications and **571-273-8300** for After Final communications.

AJ
January 5, 2006


CURTIS KUNTZ
SUPERVISORY PATENT EXAMINER
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